INDEX.

Académie de Macon, Medal of, | 741.

Acheson, Edward Goodrich, awarded Rumford Premium, 749, 754.

Acoustics, Architectural, 49-84.
Adams, J. M., The Transmission of
Rontgen Rays through Metallic
Sheets, 669-697, 739.

Adiabatic Determination of the Heats of Combustion of Organic Substances, especially Sugar and Benzol, 571, 741.

Alcohol, Expansion and Compressibility of, and of Ether, in the Neighborhood of their Boiling

Points, 419. Aldrovandi, Ulisse, Three hundredth anniversary of death of, 743.

American Philosophical Society, Letter

from, 737.

Angell, J. B., Delegate, Lansing,
Mich., 744.

Animals, Racing, An approximate
Law of Fatigue in the Speeds of, 273.

Antimony, The Determination of Small Amounts of, by the Berzelius-Marsh Process, 741. Arsenic, The Determination of, by

the Guthzeit Method, 741. Arsenic in the Urine, The Determination of, 741.

Assessment, Annual, Amount of,

Atkinson, Edward, Biographical notice of, 761.

Atmosphere in the Tropics, Results of the Franco-American Expedition to explore the, 261.

Atomic Weight of Bromine, A Revision of the, 199.

Bailey, S. I., Variable Stars in the Globular Clusters, 758.

Bartlett, H. H. See Robinson, B. L., and Bartlett, H. H.

Baxter, G. P., elected Resident Fellow, 758; A Revision of the Atomic Weight of Bromine, 199-214.

Bell, Louis, On the Physiological Basis of Illumination, 744.

Benzol, Adiabatic Determination of the Heats of Combustion of, 571, 741.

Bermuda Biological Station for Research, Contributions from, 461-

Bermuda, The Hydroids of, 461, 739.

Berthelot, M., Death of, 744. Berzelius-Marsh Process, The Determination of Small Amounts of Antimony by the, 741.

Black, O. F. See Sanger, C. R., and Black, O. F. Blackman, M. W., The Spermatogen-

esis of the Myriapods: (V.) On the Spermatocytes of Lithobius, 487-518, 741.

Boltzmann, Ludwig, Death of, 737. Bowditch, C. P., Report of Treasurer, 745.

Bromine, A Revision of the Atomic Weight of, 199. Brunetière, F., Death of, 739.

Cabot, Samuel, Death of, 739.
Campbell, L. L. See Hall, E. H.,
Campbell, L. L., Serviss, S. B.,
and Churchill, E. P.

Capellini, G., Letter from, 743. Carborundum, 749.

Celli, A., Delegate, Bologna, 744. Cheever, D. W., resigns Fellowship,

742 Chemical Laboratory of Harvard College, Contributions from, 199, 571, 637, 717.

Circuit, Long Alternating-Current, The Process of building up the Voltage and Current in a, 699, 744.

Cobalt, Canada, Cobalt and Silver Deposits of, 743.

Cobalt and Silver Deposits of Cobalt, Canada, 743.

Cole, L. J., An Experimental Study of the Image-Forming Powers of

Various Types of Eyes, 333-417. Columbia University of the City of New York, announcement of Loubat prizes, 744.

Combustion, Concerning Position Isomerism and Heats of, 637, 741.

Combustion of Organic Substances, especially Sugar and Benzol, Concerning the Adiabatic Determination of the Heats of, 571, 741.

Committees, Standing, appointed, 757; List of, 771.

Compressibility and Expansion of Ether and of Alcohol in the Neighborhood of their Boiling Points, 419.

Conductivity of Fused Electrolytes, 758.

Conductivity, Thermal, in Soft Iron between 115° and 204° C., On the Thomson Effect and the Temper-

ature Coefficient of, 595.

Congdon, E. D., The Hydroids of Bermuda, 461-485, 739.

Copeland, M. See Mark, E. L., and Copeland, M.

Corpuscular Theory, The, as applied to Electric Conduction in Gases, 740.

Council, Report of, 761; Financial Report of, 755. Cross, C. R., Report of the Rumford

Committee, 748.

Cryptogamic Laboratory of Harvard University, Contributions from, 175.

Current in a Long Alternating-Current Circuit, The Process of Building up the Voltage and, 699, 744.

Churchill, E. P. See Hall, E. H., Cylindrical Magnets of Different Campbell, L. L., Serviss, S. B., and Churchill, E. P.

Cytology of the Entomophthoraceae, On the, 175.

Davis, W. M., The Eastern Escarpment of the Mexican Plateau, 758.

Deam, C. C., New Plants from Guatemala, collected by, 742.

Delegation pour l'Adoption d'une Langue Auxiliaire Internationale, Letter from, 738, 743.

Demagnetizing Factors for Cylindrical Magnets of Different Dimensions, 745.

Denny, Letter from, 744; resigns Fellowship, 742.

Density, Conductivity, and Viscosity of Fused Electrolytes, 758.

Diels, H., elected Foreign Honorary Member, 743; accepts Membership, 744.

Dolbear, A. E., Letter from, 744.

Edes, H. H., letter from, 739.

Electrolytes, Fused, On the Density, Conductivity, and Viscosity of,

Electromagnet, On the Magnetic Behavior of the Finely Divided Core of an, while a Steady Current is being established in the Exciting Coil, 740.

Electromotive Force, Counter, induced in a Moving Coil Galvanometer when the Instrument is used Ballistically, On the Correction for

the Effect of the, 159. Electromotive Force, High, with its Application to Spectrum Analysis, 744.

Emerton, E., Delegate, Bologna, 744. Entomophthoraceae, On the Cytology of the, 175.

Equations, On Linear Differential, of the Parabolic Type, 741.

Ether, Expansion and Compressibility of, and of Alcohol in the Neighborhood of their Boiling Points, 419.

Eupatorieae, Diagnoses and Synonymy of, and of Certain Other Compositae which have been classed with | them, 32.

Eupatorieae, Studies in the, 1-48. Everdingen, E. van, Director of the Netherlands Meteorological Institute, 741.

Expansion and Compressibility of Ether and of Alcohol in the Neighborhood of their Boiling

Points, 419. Eyes, An Experimental Study of the Image-Forming Powers of Various Types of, 333.

Fatigue, An Approximate Law of, in the Speeds of Racing Animals,

Fellows, Associate, List of, 777. Fellows, Resident, deceased, -Cabot, Samuel, 739. Nash, B. H., 737. Young, E. J., 737.

Fellows, Resident, elected, -Baxter, G. P., 758. Hall, Edward H., 743. Lane, W. C., 743. Norton, C. L., 758. Pierce, G. W., 758. Ripley, W. Z., 743. Fellows, Resident, List of, 773.

Fernald, M. L., Diagnoses of New Spermatophytes from Mexico,

Flora, Coniferous, of New England, 738.

Fluorescence and Magnetic Rotation Spectra of Sodium Vapor, and their Analyses, 233.

Fluorite, The Kathode-Luminescence of, 742.

Foreign Honorary Members, deceased, Berthelot, M., 744.

Boltzmann, L., 737. Brunetière, F., 739. Foster, Sir M., 745. Kirchhoff, A., 738.

Mendeleeff, D., 743. Foreign Honorary Members, elected, -

Diels, H., 743. Retzius, M. G., 743.

Foreign Honorary Members, List of, 779.

Foster, Sir Michael, Death of, 745. Franco-American Expedition to Explore the Atmosphere in the Tropics, Results of the, 261.

Franklin, Benjamin, Certificate of Membership in the Academy, 739; Medal of Anniversary of, 737.

Frevert, H. L. See Richards, T. W., Henderson, L.J., and Frevert, H. L.

Galvanometer, Mirror, A Simple Device for Measuring the Deflections of a, 171.

Galvanometer, a Moving Coil, On the Correction for the Effect of the Counter Electromotive Force induced in, when the Instrument is used Ballistically, 159. Gases, Friction and Force due to

Transpiration as Dependent on

Pressure in, 113. General Fund, 745, 755; Appropriations from the Income of, 756. Geological Society of London, Letter

from, 744. Gibson, J. A. See Sanger, C. R., and Gibson, J. A.

Globular Clusters, Variable Stars in the, 758.

Goodwin, H. M., and Mailey, R. D., On the Density, Conductivity, and Viscosity of Fused Electrolytes, 758. Graphite, 749.

Gray Herbarium of Harvard University, Contributions from, 1, 519, 738, 742.

Greece, Ancient, On Some Elements of Conservatism in, 738.

Greenman, J. M., New Species of Senecio and Schoenocaulon from Mexico, 742.

Guatemala, New Plants from, collected by C. C. Deam, 742.

Guthzeit Method, The Determination of Arsenic by the, 741.

Hall, Edward H., elected Resident Fellow, 743; accepts Fellowship, 744.

Hall, Edwin H., Report of the Coun-

cil, 761.

Hall, Edwin H., Campbell, L. L. Serviss, S. B., and Churchill, E. the Temperature Coefficient of Thermal Conductivity in Soft Iron between 115° and 204° C., 595-626

Harvard College. See Harvard Uni-

versity.

Harvard University. See Chemical Laboratory, Cryptogamic Laboratory, Gray Herbarium, Jefferson Physical Laboratory, and Zoölogical Laboratory.

Heats of Combustion, Concerning Position Isomerism and, 741.

Heats of Combustion of Organic Substances, Concerning the Adiabatic Determination of the, especially Sugar and Benzol, 571, 741.

Helogyne, The Genus, and its Synonyms, 27.

Henderson, L. J. See Richards, T. W., Henderson, L. J., and Fre-

vert, H. L. Henderson, L. J., Concerning Position Isomerism and Heats of

Combustion, 637-647, 741. Higginson, T. W., Biographical notice of E. Atkinson, 761.

Hogg, J. L., Friction and Force due to Transpiration as Dependent on Pressure in Gases, 113-146.

Honey Bee, Some Stages in the Spermatogenesis of the, 101. Hydroids, The, of Bermuda, 461, 739.

Illumination, On the Physiological Basis of, 744.

Image-Forming Powers of Various Types of Eyes, An Experimental Study of the, 333.

Inheritance, A Study of, - The Optic Chiasma of Teleosts, 215. International Language, 738, 743. Iron Particles, Fine, On the Permea-

bility and the Retentiveness of a Mass of, 85.

Iron, Soft, between 115° and 204° C,. On the Thomson Effect and the Temperature Coefficient of Thermal Conductivity in, 595.

Jamestown Exposition, Board of Managers for Massachusetts, Letter from, 738.

P., On the Thomson Effect and Jefferson Physical Laboratory, Contributions from, 49, 85, 93, 113,

147, 159, 171, 419, 595, 669.
 Jeffrey, E. E., The Ancient Coniferous Flora of New England, 738.

Johnson, D. W., The Volcanic Necks of the Mt. Taylor Region, New Mexico, 743.

Kathode-Luminescence of Fluorite, 742.

Kennelly, A. E., An Approximate Law of Fatigue in the Speeds of Racing Animals, 273-331; The Process of Building up the Voltage and Current in a Long Alternating-Current Circuit, 699-715, 744.

Kingsley, J. S., resigns Fellowship, 745.

Kinnicut, L. P., Report of C. M. Warren Committee, 754. Kirchhoff, J. W. A., Death of, 738.

Laboratory of Histology and Embryology, Western Reserve University, Contributions from, 487.

Lane, W. C., elected Resident Fellow, 743; accepts Fellowship,

744.

Larrabee, A. P., The Optic Chiasma of Teleosts: A Study of Inheritance, 215-231.

Law of Fatigue, An Approximate, in the Speeds of Racing Animals, 273.

Librarian, Report of, 747.

Library, Appropriations for, 755. Linné, Carl von, Anniversary of birth of, 745.

Lithobius, Spermatocytes of, 487, 741.

Loudness, The Sensation of, 740. Lowell, Percival, Temperature A Determination of the Mars. Solar Heat received, 649-667, 739.

Lyman, Theodore, The Corpuscular Theory as applied to Electric Conduction in Gases, 740.

Mailey, R. D. See Goodwin, H. M., and Mailey, R. D. Mark, E. L., Delegate to attend 7th International Zoological Congress. An Electric Wax-Cutter for Use in Reconstructions, 627-636, 740; Report of the Publication Committee, 754. Zoölogical Laboratory of the Museum of Comparative Zoology at Harvard College, Contributions from.

Mark, E. L., and Copeland, M., Some Stages in the Spermatogenesis of the Honey Bee, 101-111.

Mars, Temperature of. A Determi-

Mars, Temperature of A Determination of the Solar Heat received, 649, 739.

Mendeleeff, D., Death of, 743.

Meteorological Observations in 1906 above the Tropical and Equatorial Atlantic, 745.

Meteorology, The, of the North and South Polar Zones, 740.

Mexican Plateau, The Eastern Escarpment of the, 758.

Note-Mexico, New or otherwise worthy Spermatophytes 742.

Mexico, New Species of Senecio and Schoenocaulon from, 742.

Michigan Agricultural College, Letter from, 742.

Moore, A. H., Revision of the Genus

Spilanthes, 519-569, 738. Morse, H. W., The Kathode-Luminescence of Fluorite, 742.

Mt. Taylor Region, New Mexico, The Volcanic Necks of the, 743. Museo Nacional, Mexico, Letter from,

Museum of Comparative Zoölogy at

Harvard College. See Zoological Laboratory.

Musical Taste, The Accuracy of, in regard to Architectural Acoustics, 49.

Myriapods, Spermatogenesis of the, 487, 741.

Nash, Bennett H., Death of, 737. New York Academy of Sciences, Let-

ter from, 745. Nichols, Ernest Fox, presented with Rumford Medal, 741.

Norton, C. L., elected Resident Fellow, 758.

Observatorio Astronomico de la Plata, Letter from, 737. Officers, elected, 756; List of, 771.

Ophryosporus, Revision of the Genus,

Optic Chiasma of Teleosts: A Study of Inheritance, 215.

Orizaba, Mexico, An ascent of, 738. Orthogonal Functions of Two Variables, On the Conditions to be satisfied if the Sums of the Corresponding Members of Two Pairs of, are to be Themselves Orthogonal, 147.

Peirce, B. O., On the Conditions to be satisfied if the Sums of the Corresponding Members of Two Pairs of Orthogonal Functions of Two Variables are to be Themselves Orthogonal, 147-157; On the Correction for the Effect of the Counter Electromotive Force induced in a Moving Coil Galvanometer when the Instrument is used Ballistically, 159-169; On the Length of the Time of Contact in the Case of a Quick Tap on a Telegraph Key, 93-100; On the Magnetic Behavior of the Finely Divided Core of an Electromagnet or of a Transformer while a Steady Current is being established in the Exciting Coil, 740; On the Permeability and the Retentiveness of a Mass of Fine Iron Particles, 85-91; A Simple Device for Measuring the Deflections of a Mirror Galvanometer, 171-174.

Permeability and the Retentiveness of a Mass of Fine Iron Particles, On the, 85.

Physiological Basis of Illumination, On the, 744.

Pierce, George W., elected Resident Fellow, 758.

Piqueria, Revision of the Genus, 1. Pitch, Variation in Reverberation with Variation in, 49.

Polar Zones, North and South, The Meteorology of, 740. Position Isomerism and Heats of

Combustion, Concerning, 637,

in Gases, Friction and Pressure Force due to Transpiration as Dependent on, 113.

Pritchett, H. S., resigns Fellowship,

Publication, Appropriation for, 740, 756.

Publication Committee, 771; Report of, 754.

Publication Fund, 746.

Racing Animals, An Approximate Law of Fatigue in the Speeds of, 273.

Reale Universita Napoli, Letter from, 737.

Reconstructions, An Electric Wax-Cutter for Use in, 627, 740. Records of Meetings, 737.

Research Laboratory of Physical Chemistry, Contribution from,

Retentiveness of a Mass of Fine Iron Particles, On the Permeability and the, 85.

Retzius, M. G., elected Foreign Honorary Member, 743; accepts Membership, 745. erberation, Variation in, with

Reverberation, Variation in Pitch, 49.

Richards, T. W., Henderson, L. J., and Frevert, H. L., Concerning the Adiabatic Determination of the Heats of Combustion of Organic Substances, especially Sugar and Benzol, 571-593, 741.

Riddle, L. W., On the Cytology of the Entomophthoraceae, 175-197.

Ripley, W. Z., elected Resident Fellow, 743; accepts Fellowship, 744.

Robinson, B. L., New or Otherwise Noteworthy Spermatophytes, chiefly from Mexico, 742; Studies in the Eupatorieae: (I.) Revision of the Genus Piqueria; (II.) Revision of the Genus Ophryosporus; (III.) The Genus Helogyne and its Synonyms; (IV.) Diagnoses and Synonymy of Eupatorieae and of certain other Compositae which have been classed with them, 1-48.

Robinson, B. L., and Bartlett, H. H., New Plants from Guatemala, collected by C. C. Deam, 742.

Röntgen Sheets, The Transmission of, 669, 739.

Rotch, A. L., Meteorological Obser-vations in 1906 above the Tropical and Equatorial Atlantic, 745; Report of Librarian, 747; Results of the Franco-American Expedition to Explore the Atmosphere in the Tropics, 261-272.

Rumford Committee, Report of, 748; Reports of Progress to, 749.

Rumford Fund, 746; Appropriations from the Income of, 756; Papers published by Aid of, 233, 419, 571, 595, 637, 649, 669.

Rumford Premium, 792; award of, 741, 754.

Sabine, W. C., Architectural Acoustics, 49-84; The Sensation of Loudness, 740.

Sanger, C. R., and Black, O. F., The Determination of Arsenic by the Guthzeit Method, 741; The Determination of Arsenic in the Urine, 741.

Sanger, C. R., and Gibson, J. A., The Determination of Small Amounts of Antimony by the Berzelius-Marsh Process,

733, 741. Sawyer, E. F., resigns Fellowship, 745.

Schoenocaulon, New Species of, from Mexico, 742.

Séménov, Pierre de, 80th anniversary of, 741.

Senecis, New Species of, from Mexico, 742.

Seventh International Zoölogical Con-

gress, Invitation from, 741.
Serviss, S. B. See Hall, E. H., Campbell, L. L., Serviss, S. B., and Churchill, E. P.

Shuddemagen, C. L. B., The Demagnetizing Factors for Cylindrical Magnets of Different Dimensions, 745.

- Sharples, S. P., Cobalt and Silver Sugar, Adiabatic Determination of Deposits of Cobalt, Canada, 743.
- Silver Deposits of Cobalt, Canada, 743.
- Smith, A. W., Expansion and Compressibility of Ether and of Alcohol in the Neighborhood of their Boiling Points, 419-460.
- Smith, Jeremiah, resigns Fellowship, 742.
- Smith, M. M., On Linear Differential Equations of the Parabolic Type, 741.
- Smyth, H. W., On Some Elements of Conservatism in Ancient Greece,
- Société Imperiale russe de Géographie, Letter from, 741.
- Sodium Vapor, Fluorescence and Magnetic Rotation Spectra of, and their Analysis, 233.
- Sokolow, N., Death of, 744.
- Solar Heat received, A Determination of the Temperature of Mars, 649, 739.
- Solenoids, Cylindrical, On the Self Mutual Inductance and 742.
- Spectra, Magnetic Rotation, Fluorescence and, of Sodium Vapor, and
- their Analysis, 233.
 Spectrum Analysis, High Electromotive Force with its Application to, 744.
- Spermatocytes of Lithobius, 487, 741.
- Spermatogenesis of the Honey Bee, Some Stages in the, 101.
- Spermatogenesis of the Myriapods, 487, 741.
- Spermatophytes from Mexico, Diagnoses of New, 742.
- Spermatophytes, New or otherwise Noteworthy, chiefly from Mexico, 742. Spilanthes, Revision of the Genus,
- 519, 738.
- Standing Committees, appointed, 757; List of, 771.
- Standing Votes, 753. Stars, Variable, in the Globular Clus-
- ters, 758. Statutes, 781; amendment of, 740.

- the Heats of Combustion of, 571.
- Swain, G. F., appointed to represent Academy at University of Pennsylvania, 738.
- Syracuse University. See Zoölogical Laboratory, Syracuse University.
- Telegraph Key, On the Length of Time of Contact in the Case of a
- Quick Tap on a, 93.
 Teleosts, The Optic Chiasma of, 215. Temperature Coefficient of Thermal Conductivity in Soft Iron be-
- tween 115° and 204° C., 595. Temperature of Mars, A Determination of the Solar Heat received, 649, 739.
- Thermal Conductivity in Soft Iron between 115° and 204° C., On the Thomson Effect and the Temperature Coefficient of, 595.
- Thomson Effect and the Temperature Coefficient of Thermal Conductivity in Soft Iron between 115° and 204° C., 595.
- Time of Contact, On the Length of, in the Case of a Quick Tap on a Telegraph Key, 93.
- Transformer, On the Magnetic Behavior of the Finely Divided Core of an Electromagnet or of a, while a Steady Current is being established in the Exciting Coil, 740.
- Transpiration, Friction and Force due to, as Dependent on Pressure in
- Gases, 113. Treasurer, Report of, 745.
 - Tropics, Results of the Franco-American Expedition to explore the Atmosphere in the, 261.
- Trowbridge, J., High Electromotive Force with its Application to Spectrum Analysis, 744.
- University of Pennsylvania, Letter from, 737.
- University of Vienna, Letter from, 737.
- Urbina, Manuel, Death of, 737. Urine, The Determination of Arsenic in the, 741.

Viscosity of Fused Electrolytes, 758. Voltage and Current in a Long Al-ternating-Current Circuit, The Process of Building up the, 699, 744.

Walcott, C. D., elected Secretary of Smithsonian Institution, 743.

Ward, R. DeC., The Meteorology of the North and South Polar

Zones, 740. Warren (C. M.) Committee, Report of, 754.

Warren (C. M.) Fund, 746; Appropriation from the Income of, 756.

Water-levels, The Ancient, of the Champlain and Hudson Valleys, 738.

Wax-Cutter for Use in Reconstructions, An Electric, 627, 740.

cal Solenoids, 742.

Western Reserve University. Laboratory of Histology and Embryology, Western Reserve University.

Wolff, J. E., An Ascent of Orizaba, Mexico, 738. Wood, R. W., Fluorescence and Mag-

netic Rotation Spectra of Sodium Vapor, and their Analysis, 233-260.

Woodworth, J. B., The Ancient Water-levels of the Champlain and Hudson Valleys, 738.

Young, Edward J., Death of, 737.

Zoölogical Laboratory of the Museum of Comparative Zoölogy at Harvard College, E. L. Mark, Director, Contributions from, 101, 215, 333, 627.

Webster, A. G., On the Self and Mutual Inductance of Cylindriversity, Contributions from,

461.

